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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/038,745	01/02/2002	Robert Jackson	FOC1100-1	2978
44654 7	7590 12/16/2004		EXAM	INER .
SPRINKLE IP LAW GROUP			NGUYEN, NGOC YEN M	
1301 W. 25TH	STREET		<del></del>	
SUITE 408 AUSTIN, TX 78705			ART UNIT	PAPER NUMBER
			1754	
		DATE MAILED: 12/16/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
0.00	10/038,745	JACKSON, ROBERT				
Office Action Summary	Examiner	Art Unit				
	Ngoc-Yen M. Nguyen	1754				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the o	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tingly within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	mely filed ys will be considered timely. If the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 01 C	October 2004.					
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ This	s action is non-final.					
3) Since this application is in condition for allowa closed in accordance with the practice under to						
Disposition of Claims						
4) Claim(s) 1-31 is/are pending in the application 4a) Of the above claim(s) 9-31 is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-8 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	n from consideration.					
Application Papers						
9) The specification is objected to by the Examine	er.					
	) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex		•				
	kammer. Note the attached Office	ACTION OF TOMIN PTO-152.				
Priority under 35 U.S.C. § 119  12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Application of the second	ion No ed in this National Stage				
Attachment(s)						
Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) B) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Di 5)  Notice of Informal F 6)  Other:	ate Patent Application (PTO-152)				

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Application/Control Number: 10/038,745

Art Unit: 1754

## **DETAILED ACTION**

Applicant's election with traverse of Group I in the reply filed on 10/01/2004 is acknowledged. The traversal is on the ground(s) that the search of extra inventions is not a burden on the Office. This is not found persuasive because the field of search for each group is different from the others as stated in the previous office action.

The requirement is still deemed proper and is therefore made FINAL.

Claims 9-31 withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected inventions, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in the reply filed on 10/01/2004.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3 are rejected under 35 U.S.C. 102(b) as being anticipated by EP 1,052,466.

EP '466 discloses a process for recovering a PFC gas, comprising freezing and collecting a determined amount of a mixed gas containing the PFC gas discharged from a vacuum processing chamber in a cooling trap, then stopping the operation of said cooling trap and passing the regenerated mixed gas emitted by vaporization of said

frozen and collected gas through a non PFC-gas removal system to remove gases other than the PFC gas from said regenerated mixed gas and provide high concentration of PFC gas, and recovering said high-concentration PFC gas (note paragraph [009]).

When cooling trap is connected to the exhaust system of the vacuum processing chamber, i.e. when the cooling trap is provided on the vacuum side, a small size, low capacity refrigerator suffices to easily attain a cryogenic temperature. Moreover, a high concentration PFC gas can be obtained because the non-PFC gas removal system removes gases other than PFC gases (SiF<sub>4</sub>, CO<sub>2</sub>, HF, F<sub>2</sub> or the like herein referred as non-PFC gases) from the mixed gas emitted by vaporization of the frozen and collected gas after the operation of the cooling trap is stopped (note paragraph [0012]). As shown in Figure 5, the PFC gas recovery comprises cooling trap 5 on cooling operation side which is connected to a regeneration line consisting of non-PFC gas removal system 19 or the like via switching valves similarly to cooling trap 6 (note paragraph [0043]).

The system as disclosed in EP '466 anticipates the claimed system.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

<sup>(</sup>a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 4-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over EP '466.

EP '466 discloses a system as described in the above rejection.

EP '466 does not specifically disclose manifold for direct the gas flow to the inlet or exhaust the gas from the outlet.

However, since such manifolds are required in order to allow the gas to flow in or out of the system, it would have been obvious to one of ordinary skill in the art to optimize the manifold arrangement in order to achieve the desired flow of the gas.

The prior art made of record and not relied upon is considered pertinent to: applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ngoc-Yen M. Nguyen whose telephone number is (571) 272-1356. The examiner is currently on Part time schedule.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Stan Silverman can be reached on (571) 272-1358. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed (571) 272-1700.

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Ngoc-Yen M. Nguyen Primary Examiner Art Unit 1754

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December 13, 2004